

PACKAGED VIRUS-LIKE PARTICLES

ABSTRACT OF THE DISCLOSURE

The present invention is related to the fields of vaccinology, immunology and
5 medicine. The invention provides compositions and methods for enhancing
immunological responses against antigens coupled or fused to virus-like particles (VLPs)
packaged with immunostimulatory nucleic acids, preferably oligonucleotides containing
at least one non-methylated CpG sequence and a toll-like receptor (TLR) ligand. The
invention can be used to induce strong antibody and T cell responses particularly useful
10 for the treatment of allergies, tumors and chronic viral diseases as well as other chronic
diseases.